

Exhibit 3

Materials Test Report

Test run on Shaft Technology Group's Instron Universal Tester Model 4502

Data acquired and analyzed using LabView2 for Macintosh.

Operator: **das of the Shaft Technology group** Test Date: **Wednesday, May 5, 1993**

Material/Lot #/Part #/Ext #
Filler/Additive/Ext Mandrel?
Test Temp/MegRads/KeV
Necked?/Necking Method
Expanded?/Heat Stabilized?
If Neckd I Expnd Original ID/OD
Stabliz Temp/Time/Cath Name

Peek 381G/na/na/na
None/None/No
RT/0/0
No/NA
No/No
NA/NA
NA/NA

Test Method: **Plastics Ultimates**

Data File: **peek 318g ult**

CrossHead Speed: **20.000 in/min**

Stress
at
Max Load

Strain
at
Max Load

Load
at
Max Load

Stress
at
Break

Strain
at
Break

Energy
to
Break

#	(psi)	(in/in)	(lbs)	(psi)	(in/in)	(in*lbs)
1	1.63E4	7.00E-1	5.88E0	1.63E4	7.03E-1	6.32E0
2	1.58E4	6.60E-1	5.68E0	1.59E4	6.66E-1	5.76E0
3	1.60E4	6.93E-1	5.79E0	1.60E4	6.93E-1	6.16E0
4	1.67E4	7.23E-1	5.94E0	1.67E4	7.23E-1	6.55E0
5	1.60E4	6.87E-1	5.79E0	1.60E4	6.90E-1	6.00E0
Ave	1.62E4	6.92E-1	5.81E0	1.62E4	6.95E-1	6.16E0
SD	3.29E2	2.30E-2	9.77E-2	3.19E2	2.05E-2	3.01E-1

Excluded Specimens:

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Filler/Additive/Ext Mandrel?
Test Temp/MegRads/KeV
Necked?/Necking Method
Expanded?/Heat Stabilized?
If Neckd I Exprd Original ID/OD
Stabliz Temp/Time/Cath Name

Peek 381G/na/na/na
None/None/Unk
RT/0/0
No/NA
No/No
NA/NA
NA/NA/NA

Test Method: **Plastics Modulus**

Data File: **Peek 381g mdd**

CrossHead Speed: **1.000 in/min**

Stress at
offset
yield 1

Strain at
offset
yield 1

Energy to
offset
yield 1

Slope

Elastic
Modulus

Cross-
Sectional
Area

#	(psi)	(in/in)	(in*lbs)	(lbs/in)	(psi)	(sq. in)
1	8.98E3	2.87E-2	5.51E-1	1.53E1	4.24E5	3.62E-4
2	9.19E3	2.87E-2	5.68E-1	1.56E1	4.34E5	3.59E-4
3	9.10E3	2.89E-2	5.67E-1	1.54E1	4.24E5	3.64E-4
4	9.22E3	2.90E-2	5.62E-1	1.53E1	4.28E5	3.56E-4
5	9.19E3	2.88E-2	5.57E-1	1.54E1	4.32E5	3.56E-4
Ave	9.13E3	2.88E-2	5.61E-1	1.54E1	4.28E5	3.60E-4
SD	9.97E1	1.53E-4	6.92E-3	1.18E-1	4.47E3	3.43E-6

Excluded Specimens: